

Application S/N 09/787328
Amendment and Response dated October 26, 2004
Response to Office Action dated July 26, 2004

Amendments to the Drawings

The attached drawing sheet includes changes to Figures 1-2. In particular, the "-" preceding the position numbers have been removed to avoid confusion.

Attachment: Replacement Sheets

WO00/17351

Inventor: LONG YU Docket No: 9548-SQUSWO
Title: NEW HUMAN HEPATOMA-DERIVED GROWTH FACTOR ENCODING
SEQUENCE AND POLYPEPTIDES ENCODED BY SUCH DNA SEQUENCE AND
PRODUCING METHOD THEREOF
Serial No: 09/787328
Replacement Sheet 1 of 4

PCT/CN99/00139

human HDGF2 Nt	- ACCGCTCGTCCGCCGGCTTGAGGCCGCGGGAGCCGCGCAATTCTGC	50
mouse HDGF Nt	-	 CGCAAAC-TTG 10
human HDGF2 Nt	- GGCCCCGGGGGGGGCGGCCCTCCCGCATCTTCGGCGCCACCAAGGACTAC	100
mouse HDGF Nt	- GGCTCCGGC-----TTCCCGGCT-CGGCGCGAGCCCGG-GGCC 119	
human HDGF2 Nt	- CAGGAAGGGAGGGCTGGGATGGCGCG-TCCG-CGGCCCCGGAGTAC	147
mouse HDGF Nt	- CG-----CGGCCCCGCCA-TGTCGCATCCAACCGGAGAAAGAGTAC	91
human HDGF2 Nt	- AAAGCGGGGACCTGGCTTCGCCAAGATGAAGGGCTACCCGACTGGCC	197
mouse HDGF Nt	- AAGTGGGAGACCTGGTGTGAGATGAAGGATAACCCACACTGGCC	141
human HDGF2 Nt	- GGCCCGATTGATGAACTCCCAGAGGGCGCTGTGAAGCCTCCAGCAAAC	247
mouse HDGF Nt	- GGCCCGATTGATGAGATGCGTGGCTGCAGTGAAGTCACACAGCCAAAC	191
human HDGF2 Nt	- AGTATCTATCTCTTTGGCACCCATGAAACTGCATTCTAGGTCCC	297
mouse HDGF Nt	- AATACCAAGTCTTTGGACCCATGAGACGGCATTCTGGGOCOC	241
human HDGF2 Nt	- AAAGACCTTTCCATATAAGGAGTACAAAGACAAGTTGGAAAGTCAAA	347
mouse HDGF Nt	- AAAGACCTCTCCCTTATGAGGAATCCAAGGAGAAGTTGGCAAGCCAA	291
human HDGF2 Nt	- CAAACGGAAAGGATTAACGAAGGATTGGAAATAGAAATAACCCAG	397
mouse HDGF Nt	- CAAGAGGAAAGGGTTCAGCGAGGGCCTGTGGGAGATCGACAACACCTA	341
human HDGF2 Nt	- GAGTAAAGTTACTGGTACCAAGGCAATTAGCAACAGAGCTCTTC-A	444
mouse HDGF Nt	- CAGTCAGGCTCTGGTACCAAGTCTCCAGAAAAGACTTGTGGGCA	391
human HDGF2 Nt	- GAAAC-----TGAGGGAGAAGGTGAAATAC-----	470
mouse HDGF Nt	- GACCCCGAGGTGGAGCCGAAGGCCATGAGGGTACGGGTGATAAGAAGGG	441
human HDGF2 Nt	- -----TCCACATGCAACCAAGTGGAGGAAGAAGG-----TGATAGACTA-----	507
mouse HDGF Nt	- CAGTGGCAGAGGGCAGCAGCGACGAAGAAGGGAAACTGGTATCGATGAAC	491

Fig. 1

10-26-04

02:55PM FROM-Merchant & Gould

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Title: NEW HUMAN HEPATOMA-DERIVED GROWTH FACTOR ENCODING SEQUENCE AND POLYPEPTIDE ENCODED BY SUCH DNA SEQUENCE AND PRODUCING METHOD THEREOF
 Serial No.: 09/787328
 Replacement Sheet 2 of 4

PCT/CN99/00139

human HDGF2 Nt	-	CAAGAACATGGAAAAGGCAA	---	AAGAA-AGA	-----	AT	537		
mouse HDGF Nt	-	CAGCCAAGGAGAACGAAAAGGGCACGCTGAAGAGGAGAGCAGGGAT					541		
human HDGF2 Nt	-	G	AAA	AAGCAGGCTAAAC	-----	GGA	559		
mouse HDGF Nt	-	CTGTTGGAGGACTCCCTAAACGTCCCCAAGGAGTCAGGAGACCATGAGGA					591		
human HDGF2 Nt	-	AAAAGTCAT	ATA	CTT	-----	CA	576		
mouse HDGF Nt	-	CCAGGACAAGGAGATACTGCCTGGAGGGTAGAGAGGCACCTGCGTAG					641		
human HDGF2 Nt	-	-----	AAGAA-ATC	CTCTAAC-AGTC	-----	CCCCAAATCT	606		
mouse HDGF Nt	-	AGGTGGAGAAGAACAGCACCCCTCTGAGCCAGACTCTGCCAGGGACCT					691		
human HDGF2 Nt	-	CCAGGAGATGAAGATGACAAAGA	-----	CTGCAAAG-AAGAGG	-----	A	644		
		.							
mouse HDGF Nt	-	CCTGCAGAGGAAGAACAGGGAGAGGAAGAGGCTGCCAAGGAAGAGGCTGA					741		
human HDGF2 Nt	-	A	-----	AA	-----	CAAA	651		
mouse HDGF Nt	-	AGCCCCAGGCCTCAGAGATCATGAGAGCCTGTAGCCACCAATGTTCAAG					791		
human HDGF2 Nt	-	AGCAGC	-----	TCTGAGGG	-----	TCGAGATGCG	675		
mouse HDGF Nt	-	AGGAGCCCCCTGCCCGTTCTGCTGCTGTCTGGGTGCTACTGGGAAACT					841		
human HDGF2 Nt	-	GGCAACGACA	CAA	GAA	-----	ACACAAC-	699		
mouse HDGF Nt	-	GGCCATGGCCTGCAAACCTGGAACCCCTTCCACCCATTAAACCCCTACTC					891		
human HDGF2 Nt	-	TCAG	ACT	TGCAGAAAACC	AGT	GAAG	-----	GGACCT	730
mouse HDGF Nt	-	CCTCACTCACTCTCCCTCTAACGCCACTCTGGAGAGTGTCTGGCCCT							941
human HDGF2 Nt	-	AACTACCA	-----	TA-ATGAATGCTG	-----	CATATTAAGAGA	AA	764	
mouse HDGF Nt	-	CACCTCCAGCTCCCTCTATATACACCCCTGTGCCCGAGGATGAGATGAG							991
human HDGF2 Nt	-	CCACAAGAAGGT	TATA	TGTTT	GGTT	-----	CTCTAA	795	
mouse HDGF Nt	-	CCCTTTGTATCTCTTACACTTCTTCCAGGGTTCTGCTGGGTCTAG							1041
human HDGF2 Nt	-	TAT	-----	TCTTG	-----	GA	805		
mouse HDGF Nt	-	GCTGCTGTTCCACCTCTGACACCTCTGCCCTGCTGCAGGCATTCTAGA							1091

Fig. 1 (cont.)

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SEQUENCE AND POLYPEPTIDE ENCODED BY SUCH DNA SEQUENCE AND
PRODUCING METHOD THEREOF
Serial No.: 09/787328
Replacement Sheet 3 of 4

human HDGF2 Nt	-	TTTC	ATA	TCAACCAACACATAG	827	
mouse HDGF Nt	-	CCTTTGGGGTGGATAGTGGCAGGAGTCGAGGTGAAAGAATATAAAGGAG			1141	
human HDGF2 Nt	-	TCCTTGTCTCATTCAC	AGAACCC	CCAC	854	
mouse HDGF Nt	-	TGTGGGTTCATGGATGGCATCGTCTACCTGAGCTCTGTCAGGCCCC			1191	
human HDGF2 Nt	-	TTTC	TATG	TACATT	868	
mouse HDGF Nt	-	ACACTTATTTTCCATCTGCCTACATTCAAGAAACAGGACACTGTGGGAG			1241	
human HDGF2 Nt	-	ATTCAT	ATTCCTCTCTGTTGTTGGG		897	
mouse HDGF Nt	-	AGAGGCTACCATCCATCCATAAATCCTGTTGATTGGAAACATTT			1291	
human HDGF2 Nt	-	CGGAA	AAGACATTAGC	CTTT	919	
mouse HDGF Nt	-	CCCCCTGACCCCCAGGGTTCAAGGAATTGAGTTAACATCTAGACTTGG			1341	
human HDGF2 Nt	-	TTTAAAGTT			929	
mouse HDGF Nt	-	AGTTTCCAAGTTGGGCTAGGACCTGGAGGGAGCTAACAGCTGAAGAAT			1391	
human HDGF2 Nt	-	ACTGATTTAATTCA	TGT	TATTTGGTT	GCATGAA	963
mouse HDGF Nt	-	CAACTGATTTGCATTGAGGAAATGTCCTTCTAGATCTCAGGGCAGAAATG			1441	
human HDGF2 Nt	-	CTTGCCCTAACCACT	AAGGATTAT	C	989	
mouse HDGF Nt	-	ATAACCTGGGAGACCTGCTGCCCTCATCTACTTCCAAATGCTGAGGOC			1491	
human HDGF2 Nt	-	A	AGATTTTC	CCAGACTTATA	CATGTCT	1018
mouse HDGF Nt	-	AGCCTGTAGTCAGATATTCACOCAGACATAAAGGAAAAGACCATT			1541	
human HDGF2 Nt	-	AGGATC		1024 (SEQ ID NO: 3)		
mouse HDGF Nt	-	TTACGAAATGTTTAATAAAA	1563	(SEQ ID NO: 9)		

Identity: 68.7%

Fig. 1 (cont.)

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SEQUENCES AND POLYPEPTIDES ENCODED BY SUCH DNA SEQUENCE AND
PRODUCING METHOD THEREOF
Serial No. 09/787328
Replacement Sheet 4 of 4

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human HDGF2	- MARP-RPRBYKAGDLVFAKMKGYPHWPARIDELPBGAYKPPANKYPPIFFF	49
mouse HDGF	- MSRSNRQKBYKCGDLVFAKMKGYPHWPARIDEMPBAAVKSTANKQYVFFF	50
human HDGF2	- GTHETAPLGPKDLPYKEYKDKPGKSNRKGPNEGLWEIBNNPGVKTGY	99
mouse HDGF	- GTHETAPLGPKDLPYBESKPKGPKNRKGPSEGLWEIBNNPTVKASGY	100
human HDGF2	- QAIQQQSSS — BTBGEGGN — TADASSBEBGDRVEEDGKGKRKN	139
mouse HDGF	- QSSQQKSCAABPEVVEPAHEGDGDKKGSAEGSSDBEG-KLVIDEPAKEKN	149
human HDGF2	- EKAGSKRKKSYTSSKKQSRKSPGDEDD —	168
mouse HDGF	- EKCTLKRRAGDVLEDSPKRPKESGDHBRBEDKRIAALEGERHLPVVEKNS	199
human HDGF2	- — KDCKEEENKSSSIEGGDAGNDTRNTTSDLQKTSEGT	203 (SEQ ID NO: 4)
mouse HDGF	- TPSEPDSGQGPPAERBEGEEAAKEEAEPGVRDH —	ESL 237 (SEQ ID NO: 10)

Identity: 53.7%
Similarity: 9.4%

Fig. 2